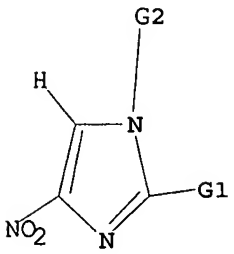
=> d l1

L1 HAS NO ANSWERS
L1 STR



G1 X,[@1]
G2 C,H

Structure attributes must be viewed using STN Express query preparation.

=> d his

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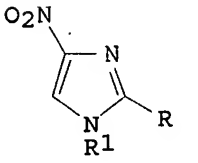
FILE 'REGISTRY' ENTERED AT 12:06:04 ON 25 APR 2007
L1 STRUCTURE UPLOADED
L2 QUE L1
L3 17 S L1
L4 320 S L1 FUL
L5 289 S L4 AND CAPLUS/LC
L6 31 S L4 NOT L5

FILE 'ZCAPLUS' ENTERED AT 12:08:18 ON 25 APR 2007
L7 52 S L4

4/25/07

L8 ANSWER 4 OF 52 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:611044 ZCAPLUS <<LOGINID::20070425>>
DOCUMENT NUMBER: 101:211044
TITLE: Nitroimidazoles: part XX - reactions of 2,4-dinitroimidazole with 2-haloethanols, 3-chloropropionitrile and propylene oxide
AUTHOR(S): Nagarajan, K.; Shenoy, S. J.
CORPORATE SOURCE: Res. Cent., CIBA-GEIGY, Bombay, 400 063, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1984), 23B(4), 363-8
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 101:211044
GI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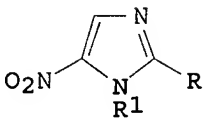
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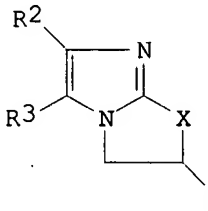
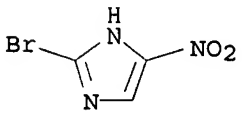
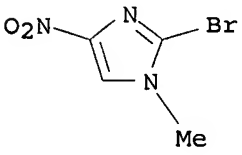

IV

AB 2,4-Dinitroimidazoles I (R = NO2, R1 = Me) reacted with BrCH2CH2OH, ClCH2CH2OH, Cl(CH2)3OH or ClCH2CH2CN to give I (R = Br, Cl; R1 = H, Me). Methylation of I (R = Br, Cl; R1 = H) gave isomeric imidazoles I and II (R = Br, Cl; R1 = Me). Other products from the reaction of I (R = NO2, R1 = H) (III) and ClCH2CH2CN were I (R = Cl, R1 = CH2CH2CN, CH2CH2CONH2) and cyclocondensation product pyrroloimidazole IV (R2 = NO2, R3 = R4 = H; X = CO). III reacted with propylene oxide to give imidazooxazoline IV (R2 = H, R3 = NO2, R4 = Me; X = O) and I (R = NO2, R1 = CH2CHMeOH, CHMeCH2OH), which (R1 = CH2CHMeOH) cyclized to give IV (R2 = NO2, R3 = H, R4 = Me; X = O). Propylene oxide and I (R = Cl, R1 = H) gave I and II (R = Cl, R1 = CH2CHMeOH), the latter of which cyclized to give IV (R2 = H, R3 = NO2, R4 = Me; X = O).

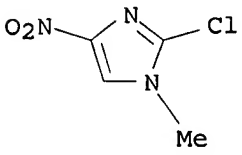
IT **65902-59-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methylation of)
RN 65902-59-2 ZCAPLUS
CN 1H-Imidazole, 2-bromo-4-nitro- (9CI) (CA INDEX NAME)



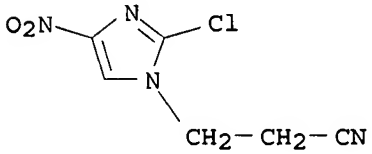
IT **16681-63-3P 63634-21-9P 92918-17-7P 92918-18-8P 92918-22-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 16681-63-3 ZCAPLUS
CN 1H-Imidazole, 2-bromo-1-methyl-4-nitro- (9CI) (CA INDEX NAME)



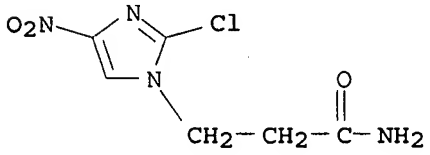
RN 63634-21-9 ZCAPLUS
CN 1H-Imidazole, 2-chloro-1-methyl-4-nitro- (9CI) (CA INDEX NAME)



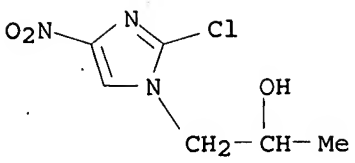
RN 92918-17-7 ZCAPLUS
CN 1H-Imidazole-1-propanenitrile, 2-chloro-4-nitro- (9CI) (CA INDEX NAME)



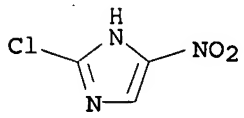
RN 92918-18-8 ZCAPLUS
CN 1H-Imidazole-1-propanamide, 2-chloro-4-nitro- (9CI) (CA INDEX NAME)



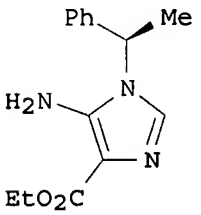
RN 92918-22-4 ZCAPLUS
CN 1H-Imidazole-1-ethanol, 2-chloro-α-methyl-4-nitro- (9CI) (CA INDEX NAME)



IT 57531-37-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, methylation, and alkylation of, with propylene oxide)
RN 57531-37-0 ZCAPLUS
CN 1H-Imidazole, 2-chloro-5-nitro- (CA INDEX NAME)



L8 ANSWER 6 OF 52 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:246882 ZCAPLUS <<LOGINID::20070425>>
DOCUMENT NUMBER: 139:69198
TITLE: Synthesis of chiral imidazole derivatives as purine precursors
AUTHOR(S): Suwinski, Jerzy; Szczepankiewicz, Wojciech; Swierczek, Krzysztof; Walczak, Krzysztof
CORPORATE SOURCE: Institute of Organic Chemistry and Technology, Silesian University of Technology, Gliwice, Pol.
SOURCE: European Journal of Organic Chemistry (2003), (6), 1080-1084
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:69198
GI



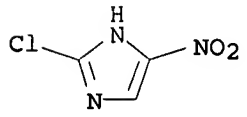
I

AB From com. available chiral building blocks, we have developed methods for the syntheses of imidazoles, e.g., I, that contain a chiral alkyl substituent at a ring atom. These compds. are suitable for further transformation into N-alkyl purine derivs.

IT **181022-34-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of (dihydroxypropyl)nitroimidazoles via addition of DBU-salts of
nitroimidazoles to (hydroxymethyl)oxirane as purine precursors)
RN 181022-34-4 ZCAPLUS
CN Pyrimido[1,2-a]azepine, 2,3,4,6,7,8,9,10-octahydro-, compd. with 2-chloro-4-nitro-1H-imidazole (1:1) (9CI) (CA INDEX NAME)

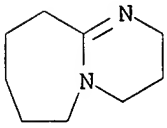
CM 1

CRN 57531-37-0
CMF C3 H2 Cl N3 O2

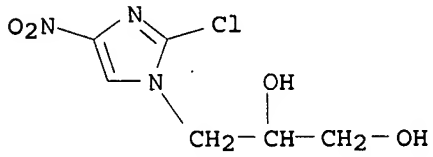


CM 2

CRN 6674-22-2
CMF C9 H16 N2

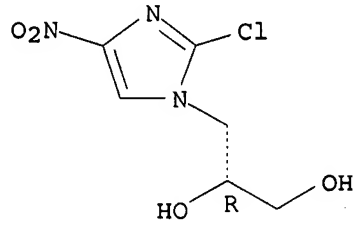


IT 549549-01-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of (dihydroxypropyl)nitroimidazoles via addition of DBU-salts of
nitroimidazoles to (hydroxymethyl)oxirane as purine precursors)
RN 549549-01-1 ZCAPLUS
CN 1,2-Propanediol, 3-(2-chloro-4-nitro-1H-imidazol-1-yl)- (9CI) (CA INDEX NAME)



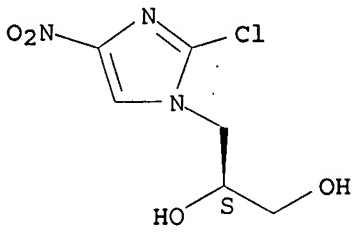
IT 549549-02-2P 549549-03-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective preparation of (dihydroxypropyl)nitroimidazoles via addition
of DBU-salts of nitroimidazoles to chiral (hydroxymethyl)oxirane as purine precursors)
RN 549549-02-2 ZCAPLUS
CN 1,2-Propanediol, 3-(2-chloro-4-nitro-1H-imidazol-1-yl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 549549-03-3 ZCAPLUS
CN 1,2-Propanediol, 3-(2-chloro-4-nitro-1H-imidazol-1-yl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 20 OF 52 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:632816 ZCAPLUS <<LOGINID::20070425>>
DOCUMENT NUMBER: 111:232816
TITLE: Preparation of 2-chloro-1-(2-hydroxy-3-methoxypropyl)-4-nitroimidazole, a sensitizer for cancer radiation therapy
INVENTOR(S): Suwinski, Jerzy; Salwinska, Ewa; Walczak, Krzysztof; Watras, Jan; Widel, Maria
PATENT ASSIGNEE(S): Politechnika Slaska, Pol.
SOURCE: Pol., 6 pp. Abstracted and indexed from the unexamined application.
CODEN: POXXA7
DOCUMENT TYPE: Patent
LANGUAGE: Polish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 145536	B1	19880930	PL 1985-255883	19851021

PRIORITY APPLN. INFO.: PL 1985-255883 19851021
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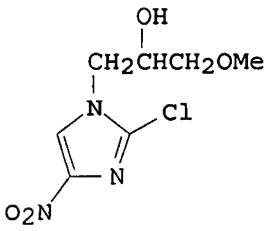
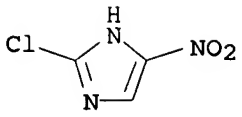
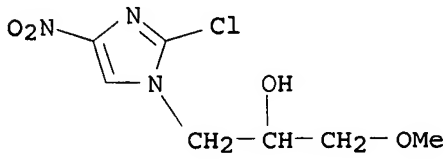


I

AB The title compound (I) a radiation sensitizer for cancer therapy, is prepared from 2,4(5)-dinitroimidazole (II) in 2 steps: (1) reaction with boiling concentrated HCl to replace 2-NO2 by 2-Cl, and (2) reaction with (methoxymethyl)oxirane (III) in the presence of K2CO3 to introduce the -CH2CH(OH)CH2OMe group. Thus, 79 g II was boiled 6 h with HCl and cooled to 0° to precipitate 2-chloro-4(5)-nitroimidazole. A mixture of the latter with 6 g K2CO3 and 225 mL III was stirred at 60° and worked up with aqueous crystallization to give 50-60 g (53-62%) I. Rats inoculated with Rhabdomyosarcoma R1 were irradiated 5 times/wk with a dose of 15 + 370 rad; healing efficiencies for treatment with 0.15 mg I/kg, 0.1 mg I/kg, and no I before irradiation were 83.3, 68.8, and 44.1%, resp.
IT 57531-37-0P, 2-Chloro-4-(5)-nitroimidazole
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkylation of, by (methoxymethyl)oxirane)
RN 57531-37-0 ZCAPLUS
CN 1H-Imidazole, 2-chloro-5-nitro- (CA INDEX NAME)



IT **111119-29-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as radiosensitizer)
RN 111119-29-0 ZCAPLUS
CN 1H-Imidazole-1-ethanol, 2-chloro-α-(methoxymethyl)-4-nitro- (9CI)
(CA INDEX NAME)



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Florian Berthiol, Henri Doucet, Maurice Santelli
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Abstract | References | Full Text: HTML, PDF (Size: 112K)
Save Article

Asymmetric Ir^{I}-Catalysed Allylic Alkylation Of Monosubstituted Allylic Acetates With Phosphorus Amidites As Ligands (p 1097-1103)
Björn Bartels, Cristina Garcia-Yebra, Günter Helmchen
Published Online: 26 Feb 2003
DOI: 10.1002/ejoc.200390162
Abstract | References | Full Text: HTML, PDF (Size: 152K)
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An Aza Analogue of *iso*-Levoglucosenone: Synthesis and Application of a New Building Block for Imino Sugars (p 1104-1110)
Jens Ostrowski, Hans-Josef Altenbach, Ralf Wischnat, David J. Brauer
Published Online: 26 Feb 2003
DOI: 10.1002/ejoc.200390163
Abstract | References | Full Text: HTML, PDF (Size: 140K)
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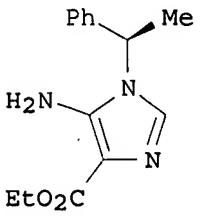
The Influence of Heteroatoms on the Extent of Double Bond Pyramidalization (p 1111-1117)
Hatice Can, Dirk Zahn, Metin Balci, Jürgen Brickmann
Published Online: 26 Feb 2003
DOI: 10.1002/ejoc.200390164
Abstract | References | Full Text: HTML, PDF (Size: 118K)
Save Article

L8 ANSWER 6 OF 52 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:246882 ZCAPLUS <<LOGINID::20070425>>
DOCUMENT NUMBER: 139:69198
TITLE: Synthesis of chiral imidazole derivatives as purine precursors
AUTHOR(S): Suwinski, Jerzy; Szczepankiewicz, Wojciech; Swierczek, Krzysztof; Walczak, Krzysztof
CORPORATE SOURCE: Institute of Organic Chemistry and Technology, Silesian University of Technology, Gliwice, Pol.
SOURCE: European Journal of Organic Chemistry (2003), (6), 1080-1084
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:69198
GI



I

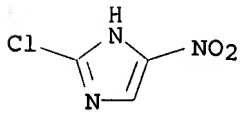
AB From com. available chiral building blocks, we have developed methods for the syntheses of imidazoles, e.g., I, that contain a chiral alkyl substituent at a ring atom. These compds. are suitable for further transformation into N-alkyl purine derivs.

IT **181022-34-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of (dihydroxypropyl)nitroimidazoles via addition of DBU-salts of
nitroimidazoles to (hydroxymethyl)oxirane as purine precursors)

RN 181022-34-4 ZCAPLUS
CN Pyrimido[1,2-a]azepine, 2,3,4,6,7,8,9,10-octahydro-, compd. with 2-chloro-4-nitro-1H-imidazole (1:1) (9CI) (CA INDEX NAME)

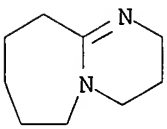
CM 1

CRN 57531-37-0
CMF C3 H2 Cl N3 O2

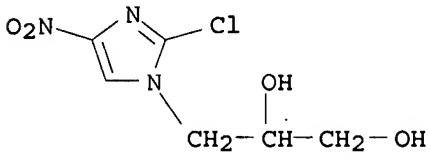


CM 2

CRN 6674-22-2
CMF C9 H16 N2

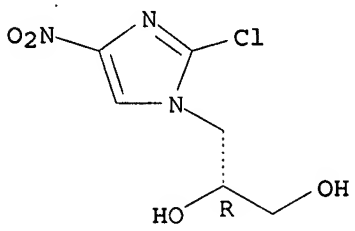


IT **549549-01-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of (dihydroxypropyl)nitroimidazoles via addition of DBU-salts of
nitroimidazoles to (hydroxymethyl)oxirane as purine precursors)
RN 549549-01-1 ZCAPLUS
CN 1,2-Propanediol, 3-(2-chloro-4-nitro-1H-imidazol-1-yl)- (9CI) (CA INDEX NAME)



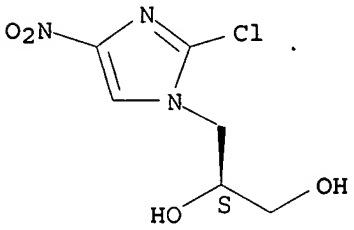
IT **549549-02-2P** **549549-03-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective preparation of (dihydroxypropyl)nitroimidazoles via addition
of DBU-salts of nitroimidazoles to chiral (hydroxymethyl)oxirane as purine precursors)
RN 549549-02-2 ZCAPLUS
CN 1,2-Propanediol, 3-(2-chloro-4-nitro-1H-imidazol-1-yl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 549549-03-3 ZCAPLUS
CN 1,2-Propanediol, 3-(2-chloro-4-nitro-1H-imidazol-1-yl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT